PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a new traffic signal and street lighting at MD 198 Relocated (Laurel Road) and Airfield Road Relocated, in Anne Arundel County. MD 198 Relocated is assumed to run in a East-West direction.

II. INTERSECTION OPERATION

The intersection is to operate in a NEMA 3-phase, semi-actuated mode.

III. CONTROLLER REQUIREMENT

Install a semi-traffic-actuated, eight-phase controller with one (1) four channel, time-delay-output loop detector amplifier, and associated harnesses housed in a NEMA size "6" base mounted

MAINTENANCE OF TRAFFIC

THE FOLLOWING WORK ZONE TRAFFIC CONTROL STANDARDS SHALL BE USED FOR THE PROJECT:

STANDARD NO. MD-104.02-01 (FLAGGING OPERATION)

STANDARD NO. MD-104.03-01 (INTERSECTION FLAGGING)

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

MR. GREG WALKER DISTRICT ENGINEER (410) 841-1001

MR. MARK COBLENTZ ADE CONSTRUCTION (410) 545-0379

MR. RICHARD DAFF DIVISION CHIEF, TOD (410) 787-7630

MR. LARRY ELLIOTT ADE TRAFFIC (410) 841-1003

MR. BARRY KING CHIEF. TEDD (410) 787-4011

MR. EDWARD RODENHIZER CHIEF OF SIGNAL OPERATIONS (410) 787-7652

EQUIPMENT LIST A

A. EQUIPMENT TO BE SUPPLIED BY THE SHA AND INSTALLED BY THE CONTRACTOR

QUANTITY

DESCRIPTION

1 EACH EIGHT-PHASE, SEMI-TRAFFIC-ACTUATED, SOLID STATE DIGITAL CONTROLLER HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET WITH METER AND DISCONNECT SWITCH.

117 SF SHEET ALUMINUM SIGNS TO CONSIST OF:

D3-2 SIGN - MAST ARM MOUNT

R3-5L SIGN - MAST ARM MOUNT

M3-2, M1-5, M6-1 SIGNS - GROUND MOUNT

ASSOCIATED SHIELD ASSEMBLY - POLE MOUNT - 2 EACH W3-3 SIGN W/ "NEW" PANEL - GROUND MOUNT

1 EACH FOUR-CHANNEL. TIME DELAY OUTPUT, LOOP DETECTOR AMPLIFIER.

EQUIPMENT LIST B

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR

QUANTITY

DESCRIPTION

21 EACH 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION

3 EACH 12 IN. OPTICALLY PROGRAMMED SIGNAL HEAD SECTION

MAINTENANCE OF TRAFFIC

TEST PIT EXCAVATION

FURNISH AND INSTALL MICRO LOOP PROBE SET WITH 500 FT. LEAD-IN

FURNISH AND INSTALL WOOD SIGN SUPPORTS 4 IN. X 4 IN.

FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION

FURNISH AND INSTALL 24 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE

3 EACH FURNISH AND INSTALL 34 IN. X 10 FT. GROUND ROD

1530 LF FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)

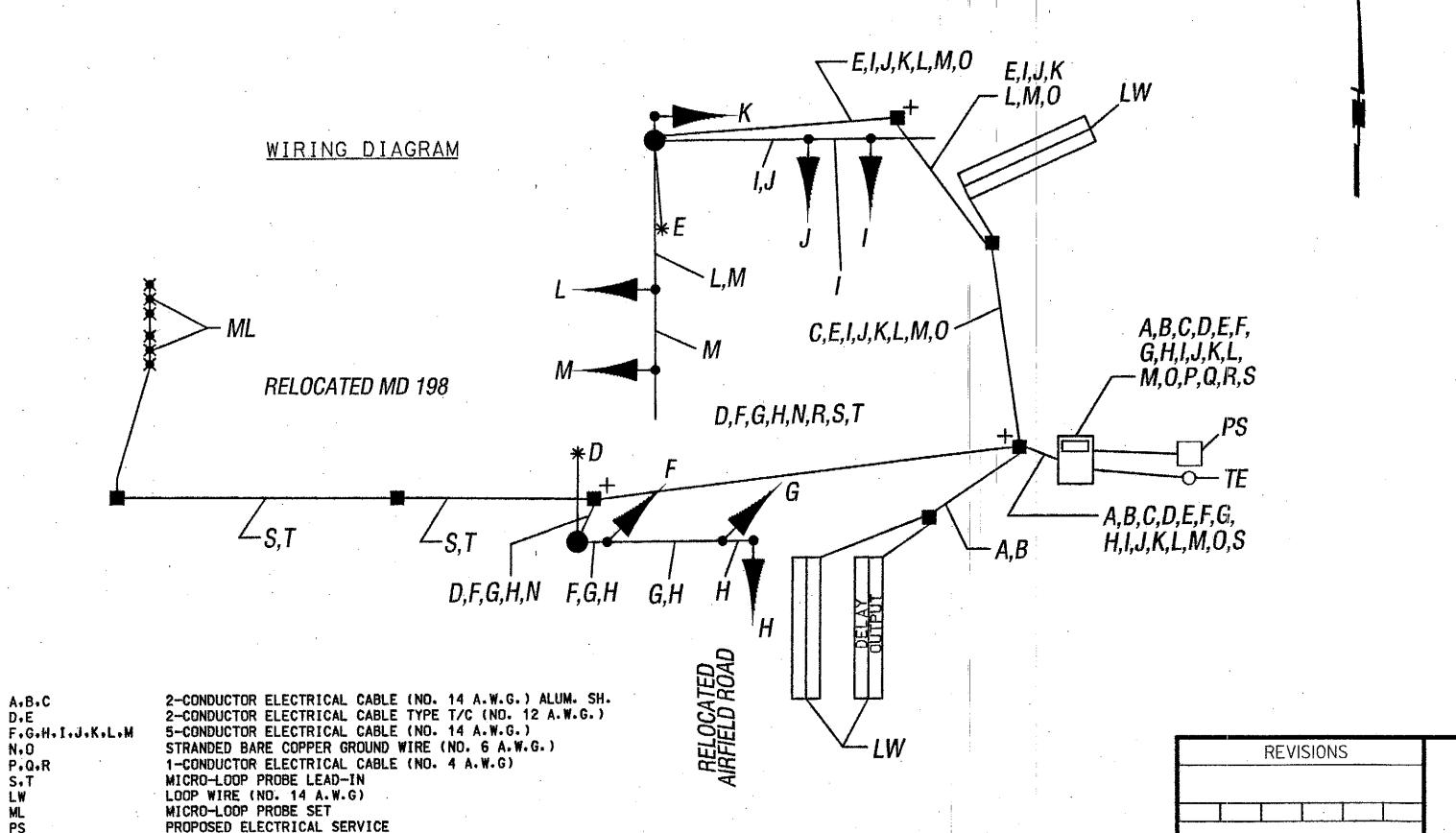
FURNISH AND ISNTALL MAST ARM POLE AND TWIN 60 FT./50 FT. MAST ARMS

FURNISH AND INSTALL MAST ARM POLE AND 38 FT. MAST ARM

1 EACH FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT

PHASING SEQUENCE CHART

	1	R Y G	R Y G	R Y G	P Y G 5	R Y G	R Y G	R Y G 8	
PHASE Ø1	∢G	R	R	R	R	R	G	G	
PHASE Ø1 CHANGE	◄ Y-	R	R	R	R	R	Y	Y	
PHASE Ø2	∢ R-	G	G	R	R	R	R	R	
PHASE Ø2 CHANGE	∢ R	Υ	Y	R	R	R	R	R	
PHASE Ø4	∢ R—	R	R	G	G	G	R	R	
PHASE Ø4 CHANGE	∢ R—	R	R	Υ	Y	Υ	R	R	
FLASHING OPERATION	FL\R	FL\Y	FL\Y	FL\R	FL\R	FL\R	FL\R	FL\R	
						,			



PROPOSED TELEPHONE SERVICE

34 IN. X 10 FT. GROUND ROD

EQUIPMENT LIST B CONTINUED

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR QUANTITY DESCRIPTION FURNISH AND INSTALL 2 IN. SCHEDULE 40 RIGID PVC CONDUIT (TRENCHED) FURNISH AND INSTALL 3 IN. SCHEDULE 40 RIGID PVC CONDUIT (TRENCHED) FURNISH AND INSTALL 4 IN. SCHEDULE 40 RIGID PVC CONDUIT (TRENCHED) FURNNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR WIRE SLEEVE 7 EACH FURNISH AND INSTALL ELECTRICAL HANDHOLE 450 LF SAWCUT FOR SIGNAL (LOOP DETECTOR)

FURNISH AND INSTALL ELECTRICAL CABLE-1 CONDUCTOR (NO. 4 AWG) 90 LF FURNISH AND INSTALL ELECTRICAL CABLE-2 CONDUCTOR (NO. 14 AWG) ALUM.

SHIELDED FURNISH AND INSTALL ELECTRICAL CABLE-2 CONDUCTOR TYPE T/C (NO. 12 AWG) 390 LF

FURNISH AND INSTALL ELECTRICAL CABLE-5 CONDUCTOR (ND.14 AWG)

FURNISH AND INSTALL 20 FT. LIGHTING ARM FOR TRAFFIC SIGNAL STRUCTURE

FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)

FURNISH AND INSTALL 250 WATT HPS LUMINAIRE WITH PHOTOCELL

REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORTS

TS-2

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

Traffic Signal Plan MD 198 RELOCATED AT AIRFIELD ROAD RELOCATED

GREENHORNE & O'MARA, INC. 10 GLENEAGLES COURT, SUITE 106, BALTIMORE, MARYLAND 21286 (410) 583-6700 annapolis, mo-baltimore, mo-atlanta, ga-tampa, fl. Fairfax. Va-West Palm Beach, fl

ENGINEERING-PLANNING-EARTH SCIENCES-SURVEYING

CHECKED BY: CJP $1^n = 20'$ SCALE: OCTOBER 23, 2001

AC/HP - 1605(001)N AA7395870 S.H.A. NO. COUNTY: ANNE ARUNDEL CO. LOG MILE:

4134 SHEET NO. 3 of 3